

# Syllabus for CEIE 455 - Introduction to Environmental Engineering

**Fall 2008**

- Course Instructor: Sayedul H. Choudhury, Ph.D.  
Program of Civil, Environmental and Infrastructure Engineering  
Science and Technology II, Room 309
- Office Telephone: (703) 993-1630
- Office Hours: Wednesday, 10 am -12 Noon
- Internet Address: schoudh1@gmu.edu
- Text: Introduction to Environmental Engineering and Science (3<sup>rd</sup> Edition), by Gilbert M. Masters and Wendell P. Ela, ISBN: 0131481932,
- Time: Thursdays, 1:30 – 4:15 pm
- Location: Science and Technology I, Room 120
- Course Objective: The student will be able to:
- (1) develop basic preliminary environmental engineering plans and designs.
  - (2) analyze the impacts of human development (industrial, commercial and residential) on air, land and water resources.
  - (3) relate environmental engineering practices to environmental laws and regulations.
- Grading: 25% Exam 1 – Thursday, Sep 18, 2008, 1:30 – 4:15 PM  
25% Exam 2 – Thursday, Oct 30, 2008, 1:30 – 4:15 PM  
30% Final Exam – Thursday, Dec 11, 2008, 1:30 – 4:15 PM  
20% Homework and Assignments
- Homework: Each homework assignment is graded on a 10-point scale. Late homework assignments will not be accepted. Contact me if you are ill or have other extenuating circumstances.
- Class notes: Class notes will be distributed electronically via Blackboard each week.

## Tentative Schedule - CEIE 455 Introduction to Environmental Engineering

Date	Description	Chapters
Week 1 8/28/08	Course Introduction Environmental Issues Population and Economic Growth	3
Week 2 9/4/08	Environmental Impacts of Energy Development Human Environmental Disturbances	3
Week 3 9/11/08	Environmental Management Environmental Impact Assessments	Handout
<b>Week 4 9/18/08</b>	<b>Exam 1</b>	
Week 5 9/25/08	Water Resources - Surface Water Quality	5
Week 6 10/2/08	Water Resources - Groundwater	5
Week 7 10/9/08	Water and Wastewater Treatment	6
<i>Week 8 10/16/08</i>	<i>Reserved for field trip (may have to revise the schedule) A field trip to a Wastewater Treatment Plant will be scheduled for this week - Details to follow</i>	
Week 9 10/23/08	Water and Wastewater Treatment	6
<b>Week 10 10/30/08</b>	<b>Exam 2</b>	
Week 11 11/6/08	Air Quality	7, 8
Week 12 11/13/08	Air Pollution Control	7, 8
<i>Week 13 11/20/08</i>	<i>Reserved for field trip (the schedule may change) An air pollution or solid waste field trip will be scheduled to take the place of this lecture - Details to follow</i>	
Week 14 11/27/08	Solid Waste Management	9
<b>12/11/08</b>	<b>Final Exam</b>	